

The diagram illustrates the structure of the CD68 gene and its derivatives. The CD68 gene is shown at the top, with exons represented by boxes and introns by lines. Restriction sites for Spe, Not I, Cla I, and EcoRI are indicated. The CD68 gene is approximately 45 kb long. Below it, the cos CD68C1 and cos CD68G1 constructs are shown, both containing the CD68 gene. The bottom part shows the pCD68N1, pCD68N5, pCD68R1A, pCD68SR1, and pCD68RS1 plasmids. pCD68N1 and pCD68N5 are 10 kb plasmids. pCD68R1A and pCD68SR1 are 30 kb plasmids. pCD68RS1 is a 10 kb plasmid. A scale bar at the bottom indicates 0, 10, 20, 30, 40, and 50 kb.

FIG. 1

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1 TGTCTGGAA CCCAGGTGCC TACCTGGTCT GCTGCATATT TGTTTTCTCT  
51 TCCAGCATGG AGATATGGnA CCAAAAGGAA CGAGTGCTCA GAGTTTTGAT  
101 TACCAnTGAC CTGCTGGTGA GTAGAGGGAA CTGATAGCAA AGGCAGAAGG  
151 GAGGATCCAA GGTGATTCCC TCTCCAAGGC AAGTTCGGAA AGTAGCAGCT  
201 TGGAATAGAA TCTGGCATGC CTAAGGCCTT TGGGGAACTG GGATGCTTAT  
251 TTCTCTGCC TTCCTTGGCT GCCCACATGG ATGCCTAAGT GTCTTCCCTC  
301 CGGGATAGAG TGTCTCCGT GCACATGCTG AAGAGTTGTC TTTCTTGACG  
351 TAGGCCAGAG GCATTGATGT GCAGCAGGTT TCTTTAGTCA TCAAcTATGA  
401 CcTTCCCACC AACAGGGAAA ACTATATCCA CAGGTAAGCG TAGATCTGGA  
451 ACATTCCCAAn ACCCTTTCAC ACcTGGCCcT CCCTGGGCTT AAAGCTCCTG  
501 ATATTCCTCA TCCCCTTCCT TGTTTTCCAG AATCGGTCGA GGTGGACGGT  
551 TTGGCCGTAA AGGTGTGGCT ATTAACATGG TGACAGAAGA AGACAAGAGG  
601 AyTcTTCGAG ACATTGAGAC cTTCTACAAC ACCTCCATTG AGGAAATGCC  
651 CCTCAATGTT GCTGACCTCA TCTGAGGGGC TGTCcTGCCA CCCAsCCCCA  
701 gCCAsGcTC AakyTcTGGG GGCTGAGGAk CwgCAGGAGG GGGGAGGGAA  
751 GGGAGCCAAG GGATGGACAT CTTGTcAtTT TTTTTtCTTT GAATAAATGT  
801 CACTTTTTGA GGCAAAAGAA GGAACCGTGA ACATTTTAGA CACCCTTTTC  
851 TTTGGGGTAG GCTCTTGCCC CAGGCGCCGG CTCTTCTCCC AAAAAAAAAA  
901 AAAAAACAcT AaTCCATTTC CCTAACcTag TAACcTCCAG ATCCCAGAGG  
951 CTCTCCTCAC CTCAGCTGAG CTCCTTTGAA AGTGATTCAA GGGAcTATGT  
1001 CAcTCAGCcT CATTtGcTGG ACCAAATcTG GAGGGAGAAC CCCTAAACC  
1051 CcTAAGTGAG GTTGCCCAGG GGGTTGTCCC CAGGTGGGGG GAAGCAGGGG  
1101 AGAGAAAATG GTAGCCATTT TtACATTGTT TTGTATAGTA TTTATTGATT  
1151 CAGGAAACAA ACACAAAATT cTGAATAAAA TGACTTGAA ACTGCCTGTT  
1201 TGGGCTTCTC ATTTCTtACC TCCCCTTCCC TCTCCCACCT GmTAcTGGGT  
1251 GCATcTCTGC T.CCCCCCTT .CCCCAGCAG ATGGTTACCT TTGGGCTGTT  
1301 GCTTTCTTGT CACCATCTGA GTTCTCAGAC GCTGGAAAGC CATGTTCTCG  
1351 GCTCTGTGAA tGACAATGcT GAcTGGAGTG CTGCCCCCTCT GTAAAGGGcT  
1401 GGGTGTGGAT GGTCACAAGC CcTcACATG CyTCAGCCAA GAgGAAGTAG  
1451 tACAGGgTC AGCCCAgAgg TCCAGGGGAA AgGAgtgGAA AcCGATTTC  
1501 CCACCAA.GG GAgGGGcTG TAcTCAGcT GTTCCCATAg cTACTTGCCA

FIG. 2(I)

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1551 CAACTGCCAA GCAAgTTTCG cTGAgTTtGA CACATGG.AT CCC.TGTGGA  
1601 TCAAcTGCCc TAAGAcTCcG TTTGCACCCA TgtgACacTG ttGAcTTTGC  
1651 CCTGAcgAa. gCAGggcCAa cagtcccccta AcTTAATtAC aAaAAcTAAT  
1701 GAcTAAGAgA gAgGTGGcTA gAgCTGAgGC CCCTG.AgTC AgGcTGTGGG  
1751 TGGGATCaTc tCCAgTACAG GAAgtGAGAc TTTCATTT.C ctCCtTTcCA  
1801 Ag.AgAgGGc TGAgGGAgCa gGGTTgAgCa ActGGTGCAg ACAGCCTAgc  
1851 TGGActTTGG GTgAgGc..g gtTCAgCCAT gAgGctGGcT gTgCttTtcT  
1901 cGGGGGcCCT GcTGGGGcTA cTGGCAGGTA AGGAGGAAGG AgGcTGAGGG  
1951 GAGGGGG..c CCCTGGGAGG GAGCcTG.CC CTGGGTTGct AACCATcTCC  
2001 T....ct.CT GCCAAAAGCC CAGGGGACAG GGAATGAC.T GTCCTCACAA  
2051 AAAATCAGcT ACTTtGcTGC CATCctTCAC GGTGACACCC ACGGtTACAG  
2101 AGAGCACTGG AACAAcCAGC CACAGGACTA CCAAgAGCCA CAAAACCACC

FIG. 2(II)

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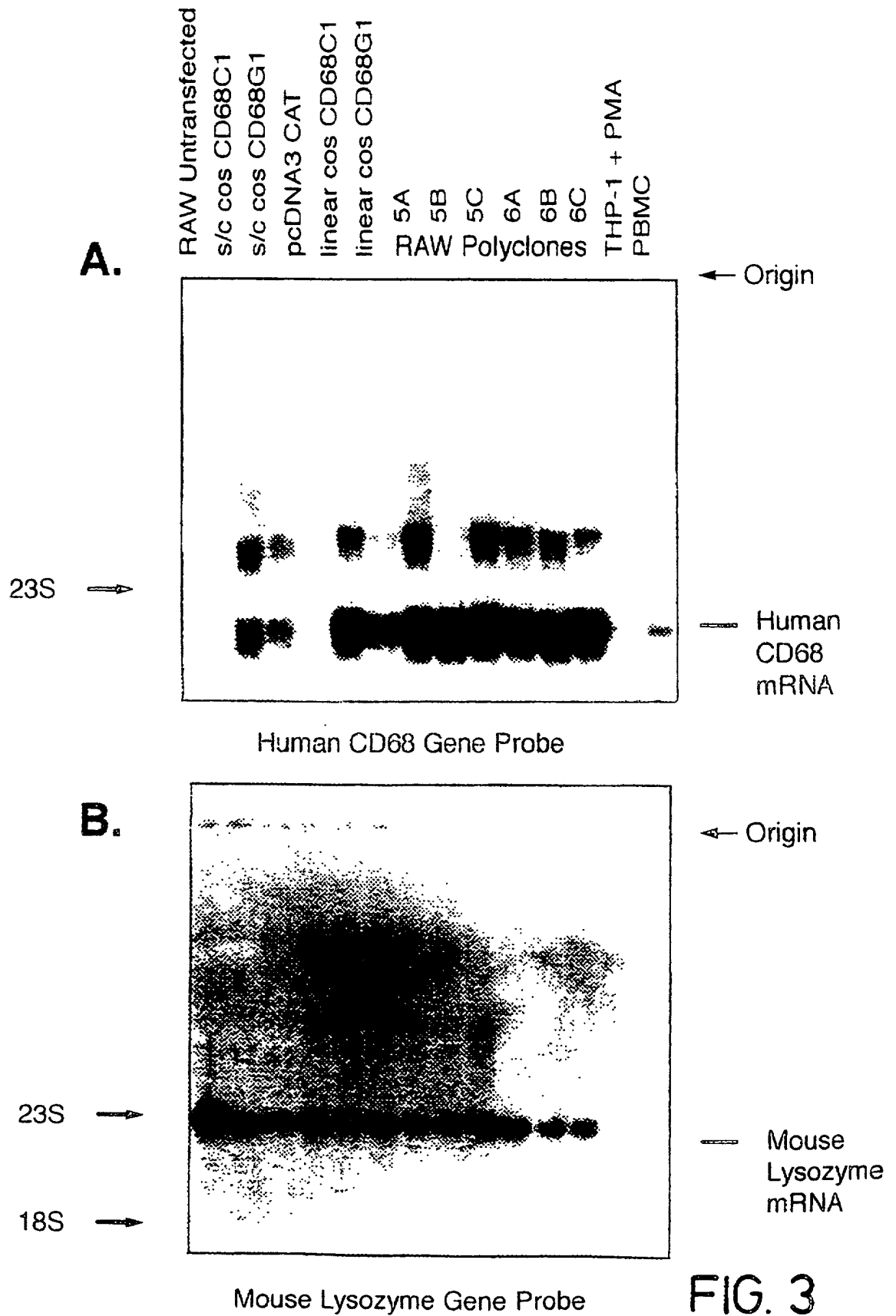
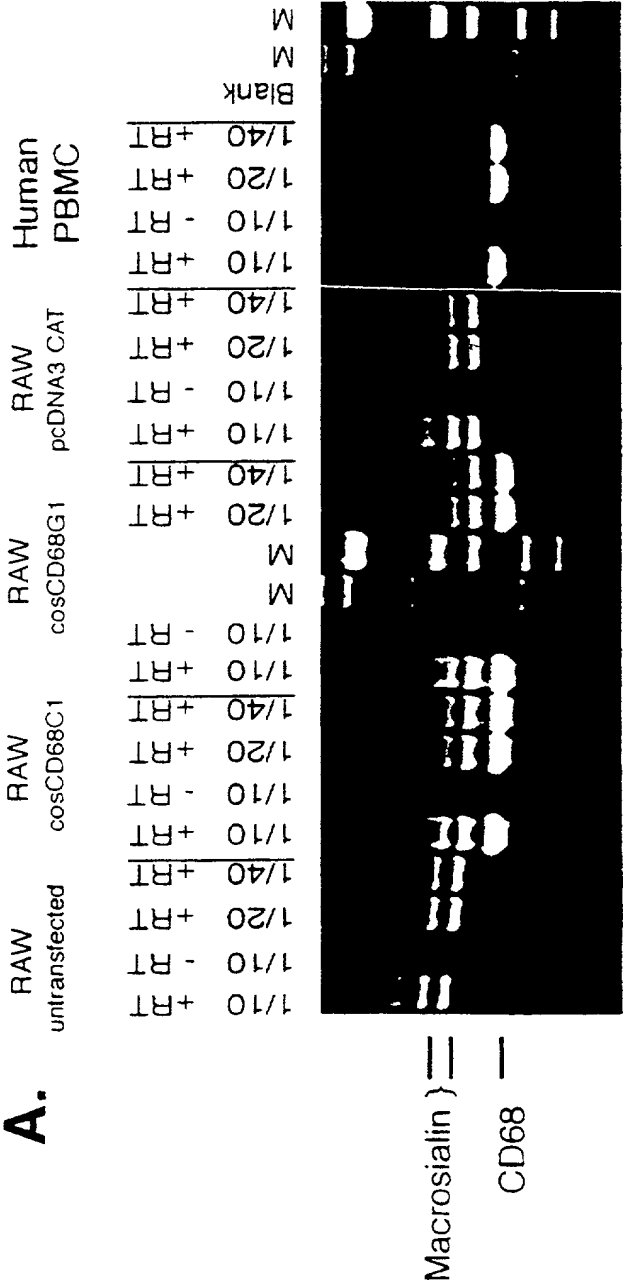


FIG. 3



CD68 and Macrosialin Primers

FIG. 4

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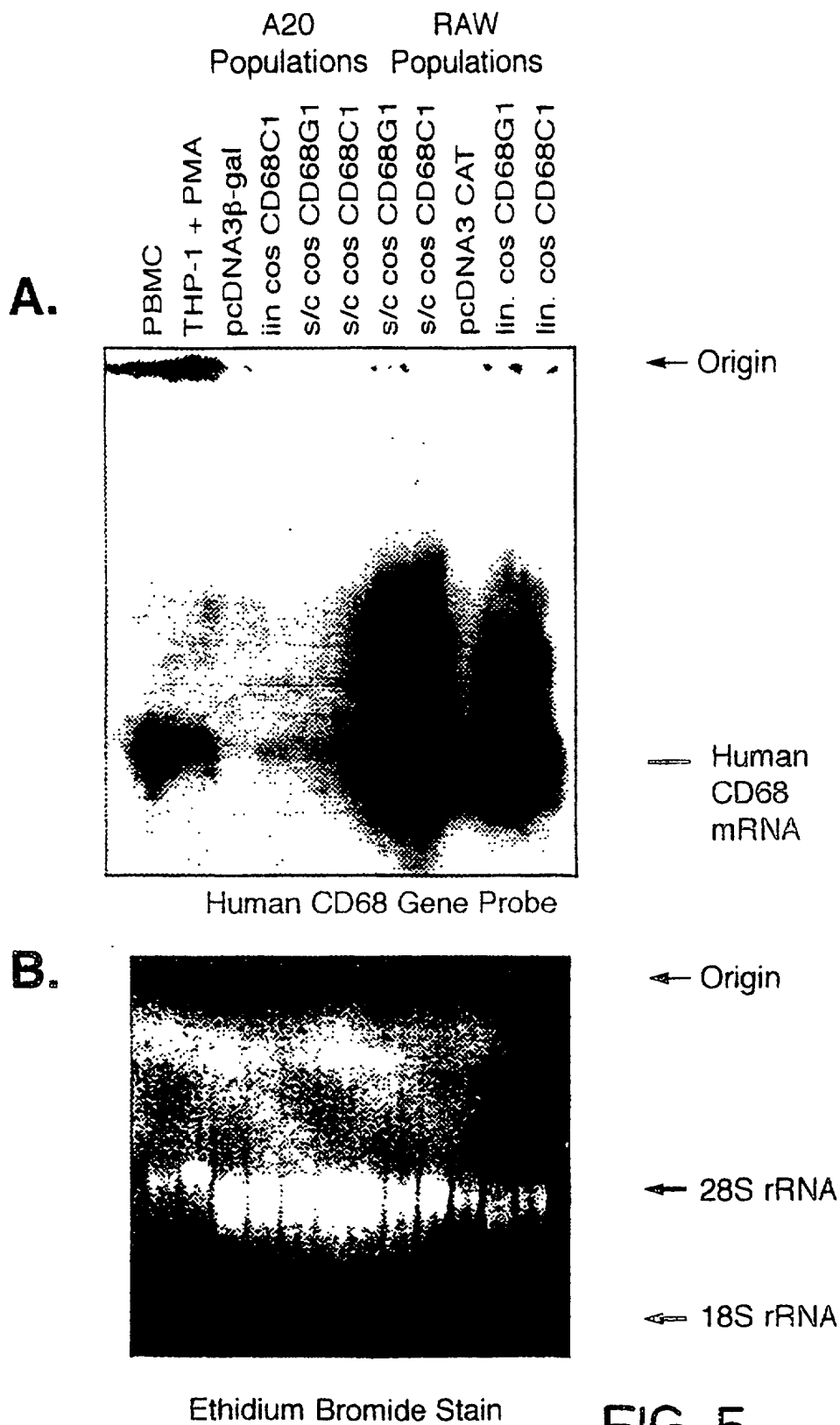


FIG. 5

**A.**

Human  
PBMC

— 600 bp

**B.**

Human  
PBMC

— 420 bp

FIG. 6